## CLAIM AMENDMENTS

Please replace all prior versions of the claims with the following listing of the revised claims.

- 1. (currently amended) A dilation catheter comprising:
- an elongate catheter body with at least one lumen; and
- a medical balloon disposed about a portion of the elongate catheter body in fluid communication with the lumen, the medical balloon comprising:
  - a proximal region and a distal region:
  - a balloon working length intermediate the proximal region and the distal region;
- a proximal taper-to-neck transition and a proximal working length-to-taper transition-that define the proximal region:
- a-distal-taper-to-neck-transition-and-a distal-working length-to-taper transition that define the distal-region:

wherein at least one transition of the proximal taper to neck transition, the proximal working length-to-taper transition, the distal taper to neck transition, and the distal working length to taper transition comprises a radius greater than 0.127 mm before inflation from:

- 0.97 to 3.3 mm when the balloon has a diameter of about 3 mm.
- 1.8 to 4.7 mm when the balloon has a diameter of about 4 mm.
- 2.4 to 6.4 mm when the balloon has a diameter of about 5 mm.
- 3.5 to 8.3 mm when the balloon has a diameter of about 6 mm.
- 4.8 to 10.2 mm when the balloon has a diameter of about 7 mm.
- 6.2 to 11.4 mm when the balloon has a diameter of about 8 mm.
- 6.7 to 13.3 mm when the balloon has a diameter of about 9 mm.
- 8.1 to 15.2 mm when the balloon has a diameter of about 10 mm.
- 9.1 to 17.1 mm when the balloon has a diameter of about 11 mm.
- 9.9 to 19.1 mm when the balloon has a diameter of about 12 mm.
- 11.2 to 22.9 mm when the balloon has a diameter of about 14 mm, and
- 13.3 to 25.4 mm when the balloon has a diameter of about 15 mm.

- (canceled).
- 3. (original) The dilation catheter of claim 1, where the radius is from:
  1.3 to 3.3 mm when the balloon has a diameter of about 3 mm,
  2.5 to 4.7 mm when the balloon has a diameter of about 4 mm,
  3.2 to 6.4 mm when the balloon has a diameter of about 5 mm,
  4.7 to 8.3 mm when the balloon has a diameter of about 6 mm,
  6.4 to 10.2 mm when the balloon has a diameter of about 7 mm,
  8.3 to 11.4 mm when the balloon has a diameter of about 8 mm,
  8.9 to 13.3 mm when the balloon has a diameter of about 9 mm,
  10.8 to 15.2 mm when the balloon has a diameter of about 10 mm,
  12.1 to 17.1 mm when the balloon has a diameter of about 11 mm,
  13.3 to 19.1 mm when the balloon has a diameter of about 12 mm,
  14.9 to 22.9 mm when the balloon has a diameter of about 14 mm, and
  17.8 to 25.4 mm when the balloon has a diameter of about 15 mm.
- 4. (original) The dilation catheter of claim 1, where the radius is: about 2.5 mm when the balloon has a diameter of about 3 mm, about 3.2 mm when the balloon has a diameter of about 4 mm, about 4.7 mm when the balloon has a diameter of about 5 mm, about 6.4 mm when the balloon has a diameter of about 6 mm, about 8.3 mm when the balloon has a diameter of about 7 mm, about 8.9 mm when the balloon has a diameter of about 8 mm, about 10.8 mm when the balloon has a diameter of about 9 mm, about 12.1 mm when the balloon has a diameter of about 10 mm, about 13.3 mm when the balloon has a diameter of about 11 mm, about 14.9 mm when the balloon has a diameter of about 12 mm, about 17.8 mm when the balloon has a diameter of about 14 mm, and about 19.1 mm when the balloon has a diameter of about 15 mm.

- 5-11. (canceled).
- (currently amended) The dilation catheter of claim 1, where the distal taper-to-neek proximal working length-to-taper radius is substantially equal to the a distal working length-to-taper radius.
- 13. (currently amended) The dilation catheter of claim 1, where the <u>a</u> proximal taper-to-neck radius, the proximal working length-to-taper radius, the <u>a</u> distal taper-to-neck radius, and the <u>a</u> distal working length-to-taper radius are substantially equal.
- 14. (currently amended) The dilation catheter of claim 1, where the <u>a</u> proximal taper-to-neck radius and the proximal working length to taper-radius are substantially equal to each other, but different from the <u>a</u> distal taper-to-neck radius and the distal working length to taper-radius, which are substantially equal to each other.
- 15. (currently amended) The dilation catheter of elaim 1 d, where the proximal working length-to-taper radius and the preximal taper to neck radius are different a distal working length-to-taper radius are different from the proximal taper-to-neck radius and the distal taper-to-neck radius.
- 16. (currently amended) The dilation catheter of claim 1, where the proximal working length-to-taper radius, the proximal taper-to-neck radius, the and a distal working length-to-taper radius, and the distal taper-to-neck radius are all different.

## 17-21. (canceled).

- 22. A method of reducing the force required to remove a dilation catheter from a conduit, comprising:
- (a) inserting the dilation catheter through the conduit, so a medical balloon disposed on the catheter emerges from the conduit, wherein the dilation catheter includes an elongate catheter body, the medical balloon comprising:

- a proximal region and a distal region:
- a balloon working length intermediate the proximal region and the distal region;
- a-proximal taper-to-neck transition and a proximal working length-to-taper transition that define the proximal region:
- a distal taper to-neck transition and a distal working length to-taper transition that define the distal region:

wherein at least one transition of the proximal taper to neck transition, the proximal working length-to-taper transition, the distal taper to neck transition, and the distal working length-to-taper transition comprises a radius greater than 0.127 mm before inflation from:

- 0.97 to 3.3 mm when the balloon has a diameter of about 3 mm.
- 1.8 to 4.7 mm when the balloon has a diameter of about 4 mm.
- 2.4 to 6.4 mm when the balloon has a diameter of about 5 mm.
- 3.5 to 8.3 mm when the balloon has a diameter of about 6 mm.
- 4.8 to 10.2 mm when the balloon has a diameter of about 7 mm.
- 6.2 to 11.4 mm when the balloon has a diameter of about 8 mm.
- 6.7 to 13.3 mm when the balloon has a diameter of about 9 mm.
- 8.1 to 15.2 mm when the balloon has a diameter of about 10 mm.
- 9.1 to 17.1 mm when the balloon has a diameter of about 11 mm.
- 9.9 to 19.1 mm when the balloon has a diameter of about 12 mm.
- 11.2 to 22.9 mm when the balloon has a diameter of about 14 mm, and
- 13.3 to 25.4 mm when the balloon has a diameter of about 15 mm:
- (b) inflating the balloon by providing a fluid to a catheter lumen in fluid communication with the balloon;
  - (c) deflating the balloon; and
- (d) applying a force to the dilation catheter, so the balloon is remeved-from withdrawn through the conduit.
  - 23. (canceled).
  - 24. The method of claim 22, where the radius is from:

1.3 to 3.3 mm when the balloon has a diameter of about 3 mm,
2.5 to 4.7 mm when the balloon has a diameter of about 4 mm,
3.2 to 6.4 mm when the balloon has a diameter of about 5 mm,
4.7 to 8.3 mm when the balloon has a diameter of about 6 mm,
6.4 to 10.2 mm when the balloon has a diameter of about 7 mm,
8.3 to 11.4 mm when the balloon has a diameter of about 8 mm,
8.9 to 13.3 mm when the balloon has a diameter of about 9 mm,
10.8 to 15.2 mm when the balloon has a diameter of about 10 mm,
12.1 to 17.1 mm when the balloon has a diameter of about 11 mm,
13.3 to 19.1 mm when the balloon has a diameter of about 12 mm,
14.9 to 22.9 mm when the balloon has a diameter of about 14 mm, and
17.8 to 25.4 mm when the balloon has a diameter of about 15 mm.

## 25. The method of claim 22, where the radius is:

about 2.5 mm when the balloon has a diameter of about 3 mm, about 3.2 mm when the balloon has a diameter of about 4 mm, about 4.7 mm when the balloon has a diameter of about 5 mm, about 6.4 mm when the balloon has a diameter of about 6 mm, about 8.3 mm when the balloon has a diameter of about 7 mm, about 8.9 mm when the balloon has a diameter of about 8 mm, about 10.8 mm when the balloon has a diameter of about 9 mm, about 12.1 mm when the balloon has a diameter of about 10 mm, about 13.3 mm when the balloon has a diameter of about 11 mm, about 14.9 mm when the balloon has a diameter of about 12 mm, about 17.8 mm when the balloon has a diameter of about 14 mm, and about 19.1 mm when the balloon has a diameter of about 15 mm,

## 26. (canceled).